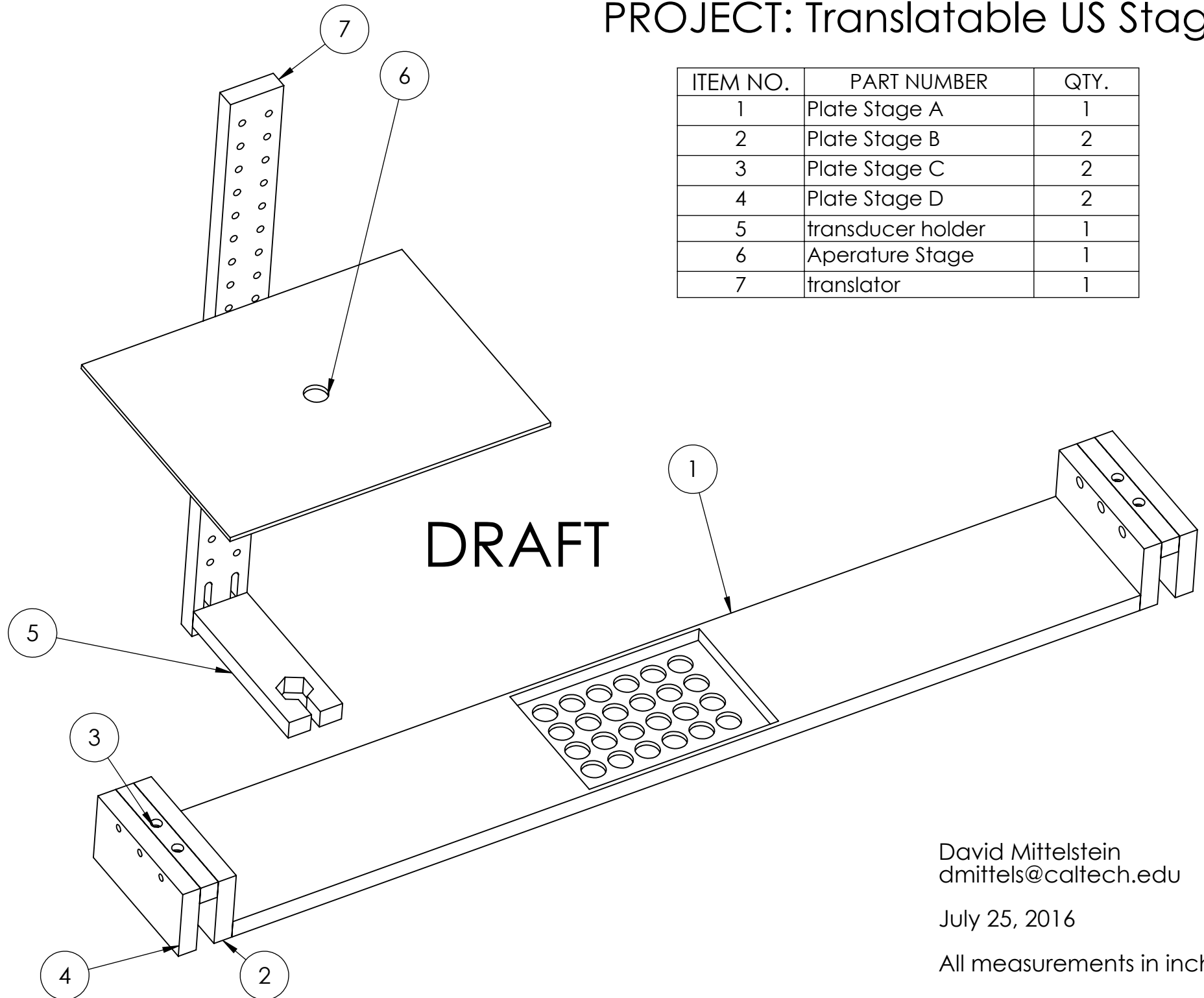


# PROJECT: Translatable US Stage

ITEM NO.	PART NUMBER	QTY.
1	Plate Stage A	1
2	Plate Stage B	2
3	Plate Stage C	2
4	Plate Stage D	2
5	transducer holder	1
6	Aperature Stage	1
7	translator	1



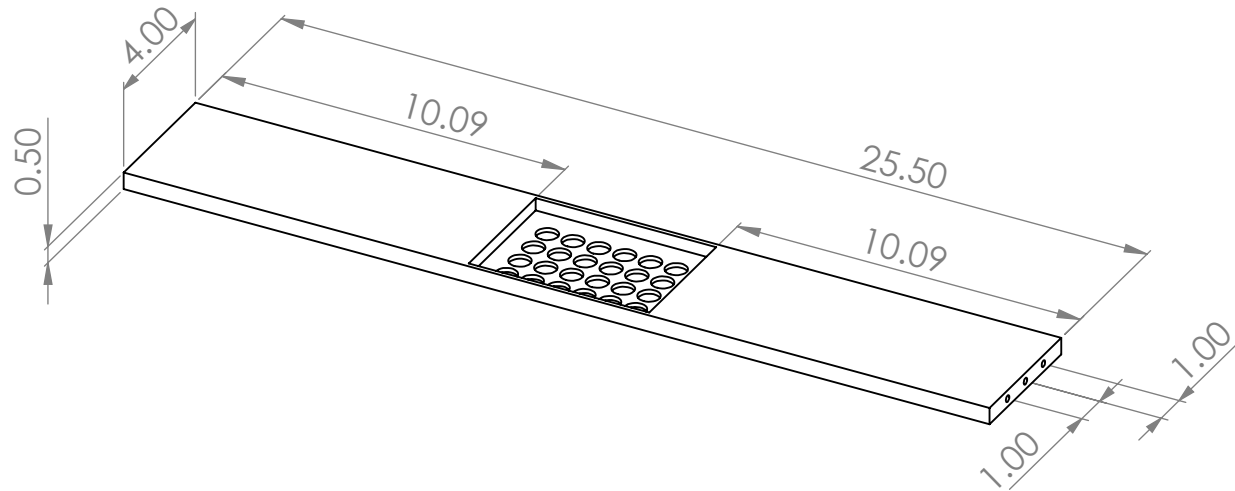
David Mittelstein  
dmittels@caltech.edu

July 25, 2016

All measurements in inches

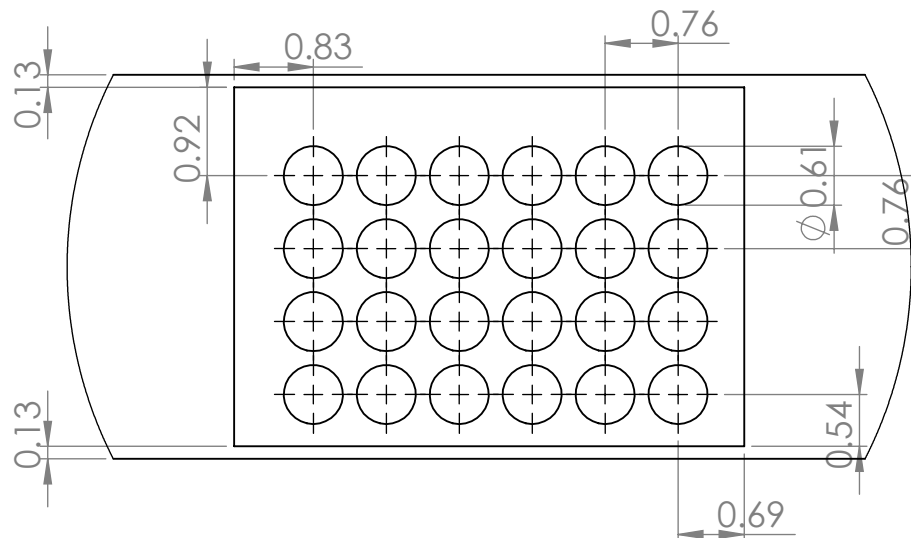
PART NAME: Stage A

QUANTITY DESIRED: 1



Threaded for #10-32 screws  
Depth 2", also present  
on opposite side

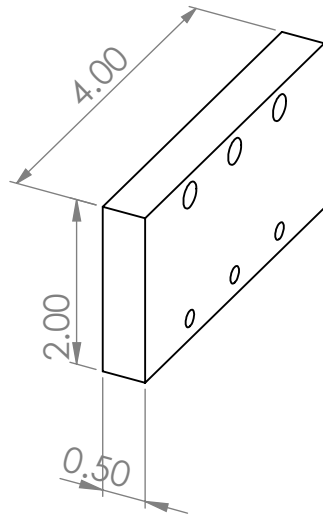
Thickness of the base of the part after cut is 1/8", the circular holes are evenly spaced and cut through the entire part



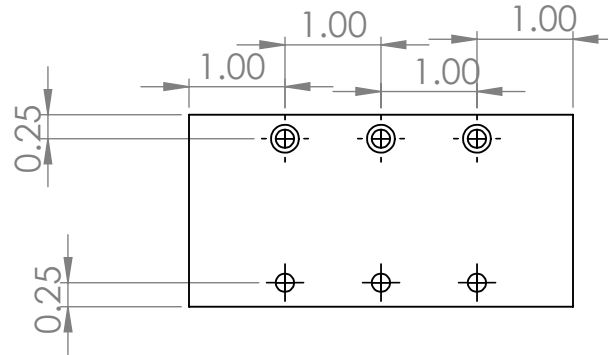
Dimensions are that corresponding  
to a 24 well tissue culture plate, I  
will provide the plate for your review

The bottom surface of this part must be smooth so that it can slide along another piece of metal

PART NAME: Stage B  
QUANTITY DESIRED: 2



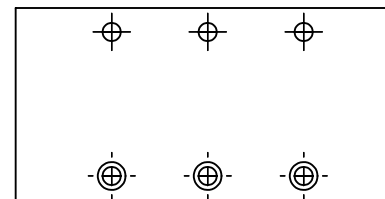
View from the Front



Top: Threaded counterbore  
for #10-32 screws entering  
on this side

Bottom: threaded hole for #10-32  
screws that entering on  
opposite side

View from the Back

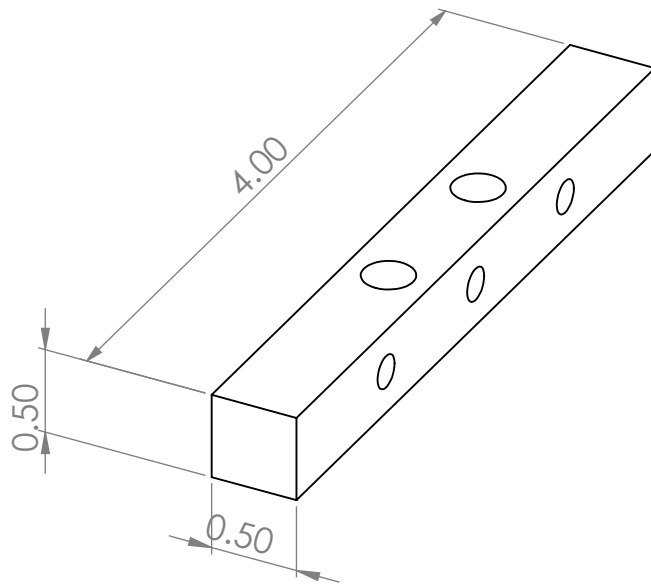


Top: threaded hole for #10-32  
screws that entering on  
opposite side

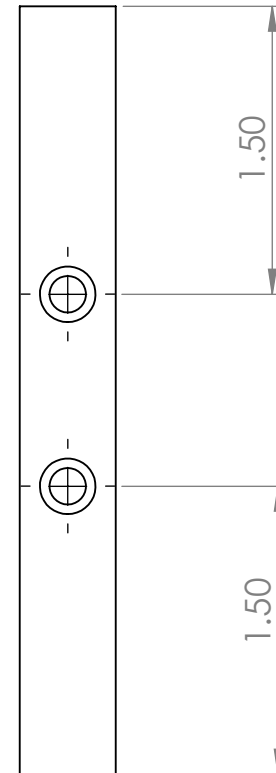
Bottom: Threaded counterbore  
for #10-32 screws entering  
on this side

Counterbores must be such that screws do not protrude past the edge of the part

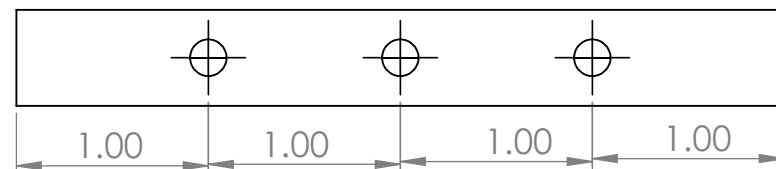
PART NAME: Stage C  
QUANTITY DESIRED: 2



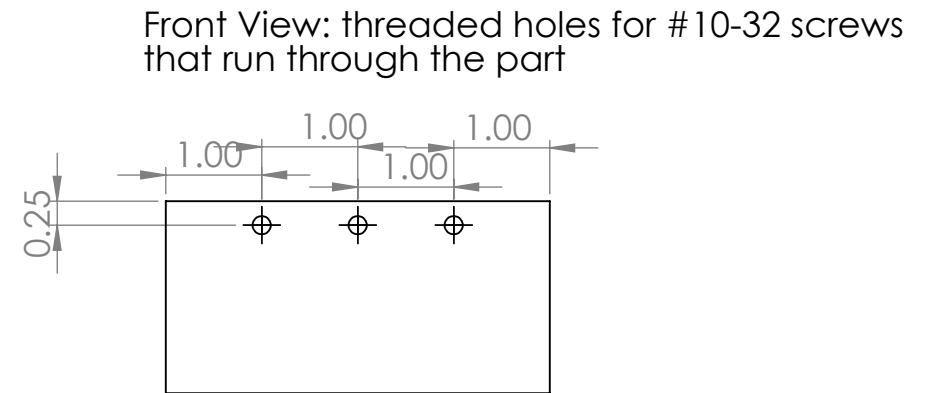
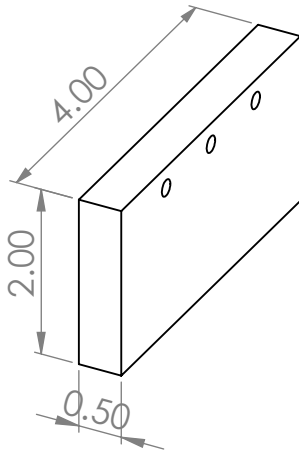
Top View:  
Threaded counterbore  
for #10-32 screws  
going through the part



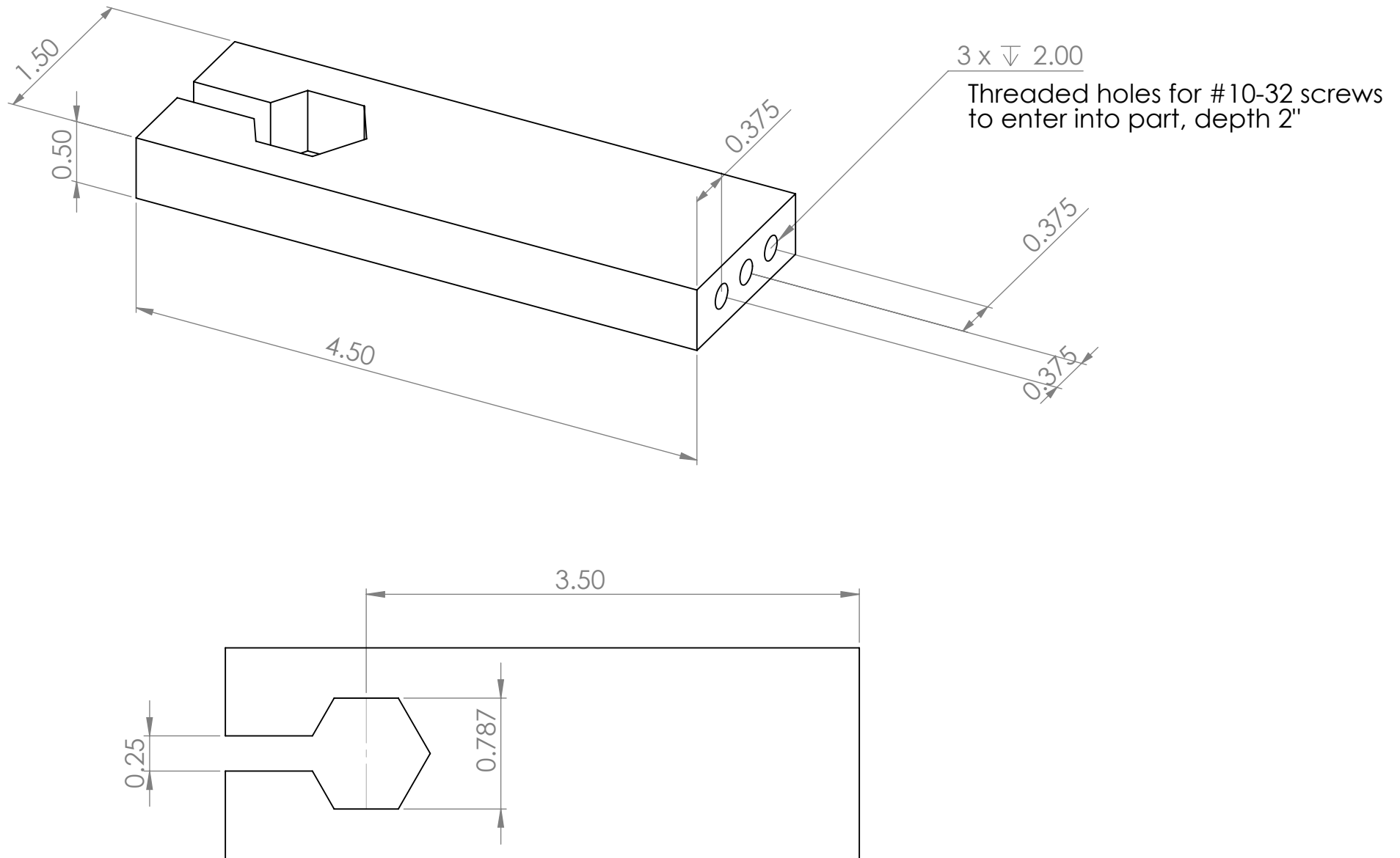
Side View:  
Threaded holes for #10-32 screws going through part



PART NAME: Stage D  
QUANTITY DESIRED: 2

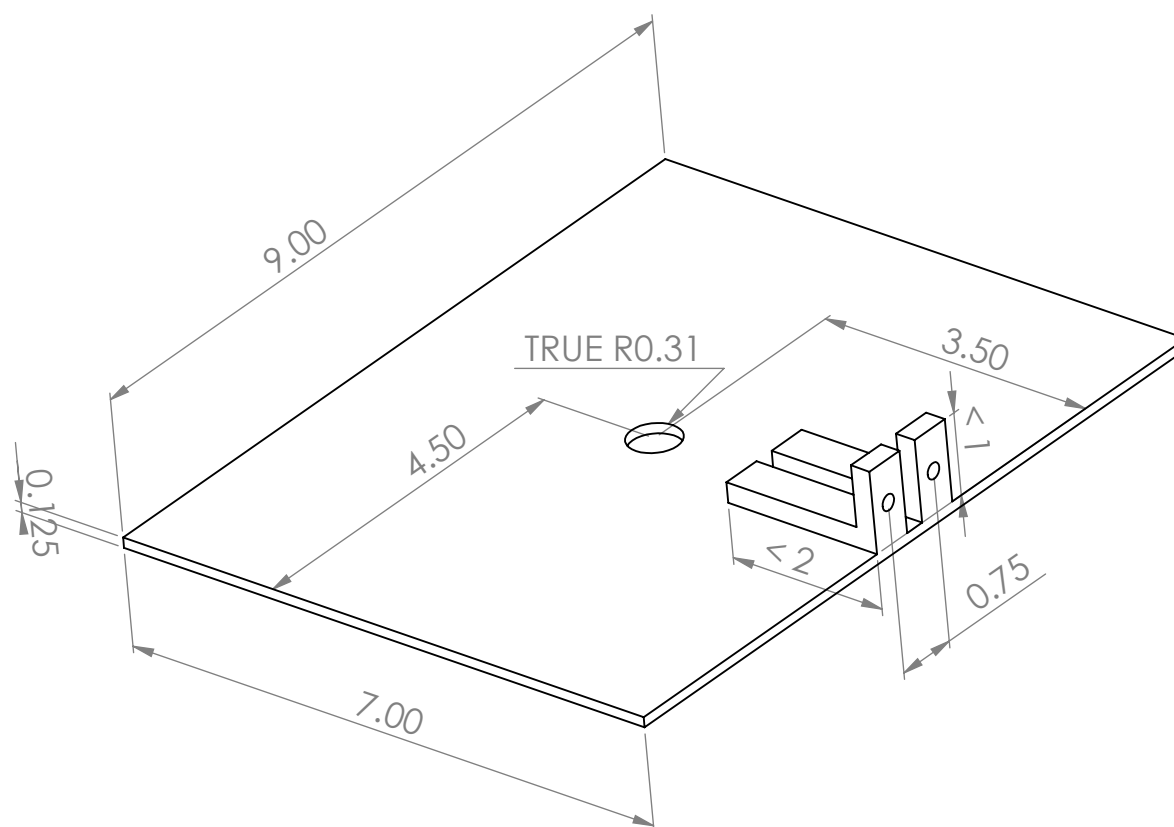


PART NAME: Transducer Holder  
QUANTITY DESIRED: 1



PART NAME: Aperature Stage

QUANTITY DESIRED: 1

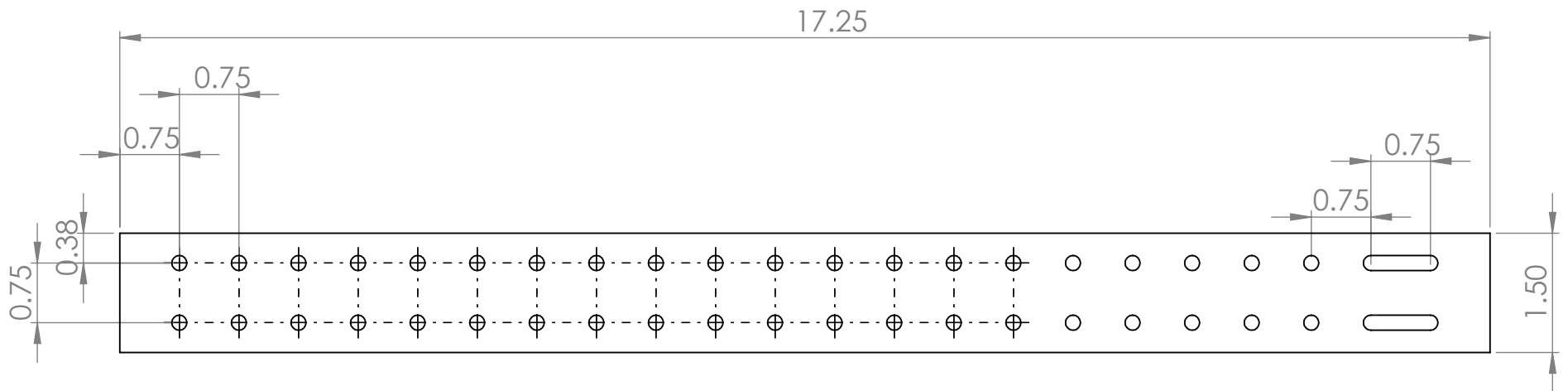


The dimensions indicated above are the requirements we desire for this part. The two connecting struts on the right of the diagram above are an idea that I had for mounting this thin 1/8" piece of metal to a support structure. If another arrangement can be used that meets the above specifications and allows for two threaded holes for #10-32 screws that is more cost/material efficient, then that is fine.

The opposite side of this thin sheet must be smooth without defects so it can slide along another piece of smooth metal (the bottom side of "Stage A")

PART NAME: Translator  
QUANTITY DESIRED: 1

Thicknes of metal part: 0.5"



All these holes are evenly spaced, go through the part  
and are threaded for #10-32

These slots go  
through the part